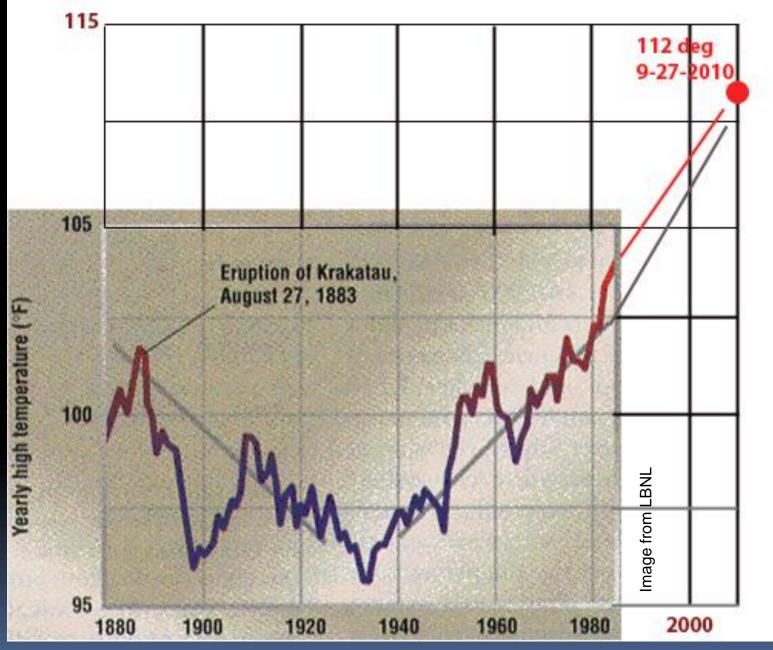
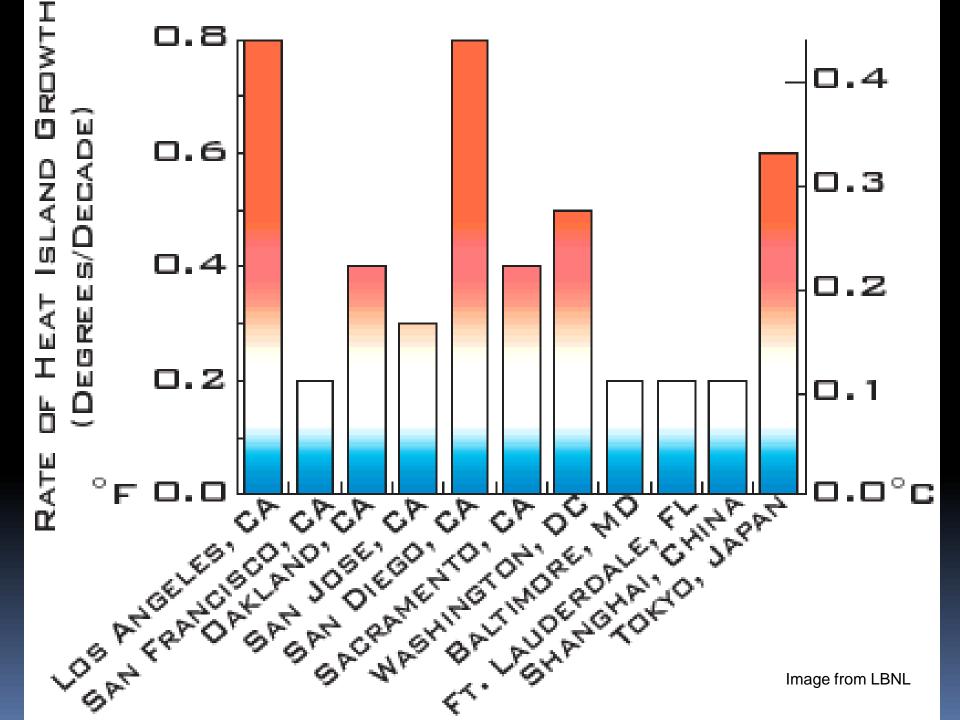
## URBAN HEAT ISLAND

Annual mean daytime air temperature can be 5.4 deg F warmer, highest recorded temperature can be 10 to 12 deg F warmer. On a clear calm night, the temperature difference can be 22 deg. F warmer.

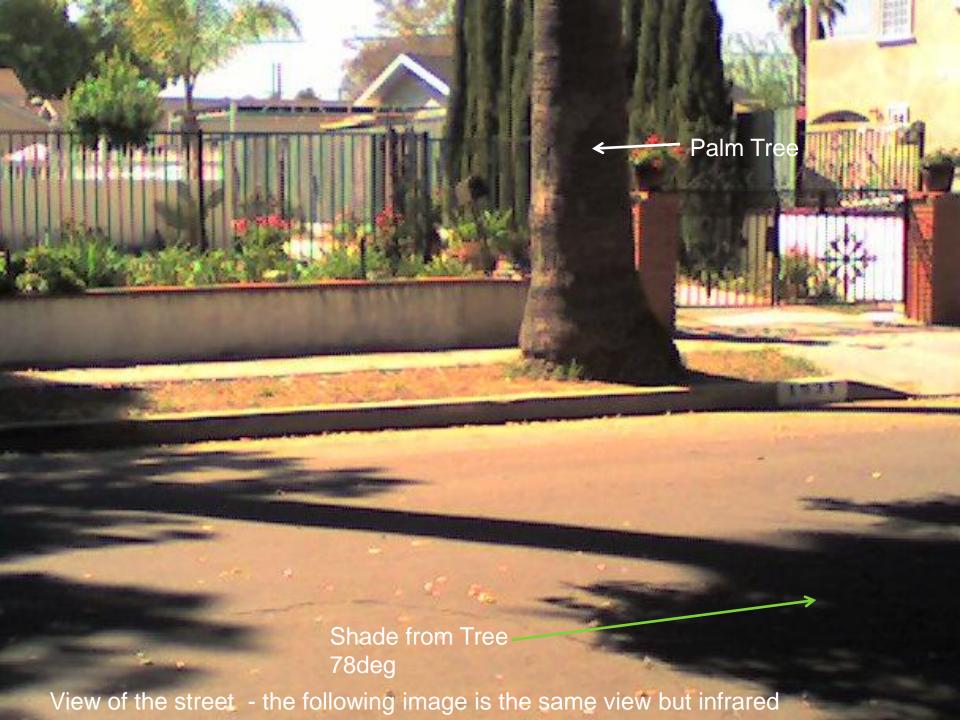
Lawrence Berkley National Laboratory (LBNL) in a study for U.S. Department of Energy specifically cited Burbank as having yearly maximum temperatures that are rising significantly.



Yearly high temperature (hottest day of the year) recorded in Downtown Los Angeles



INFRARED IMAGES:
PAVEMENT AND ROOF TEMPERATURES
APRIL 8,2011
OUTSIDE AIR TEMP APPROX.
88 DEGREES F.

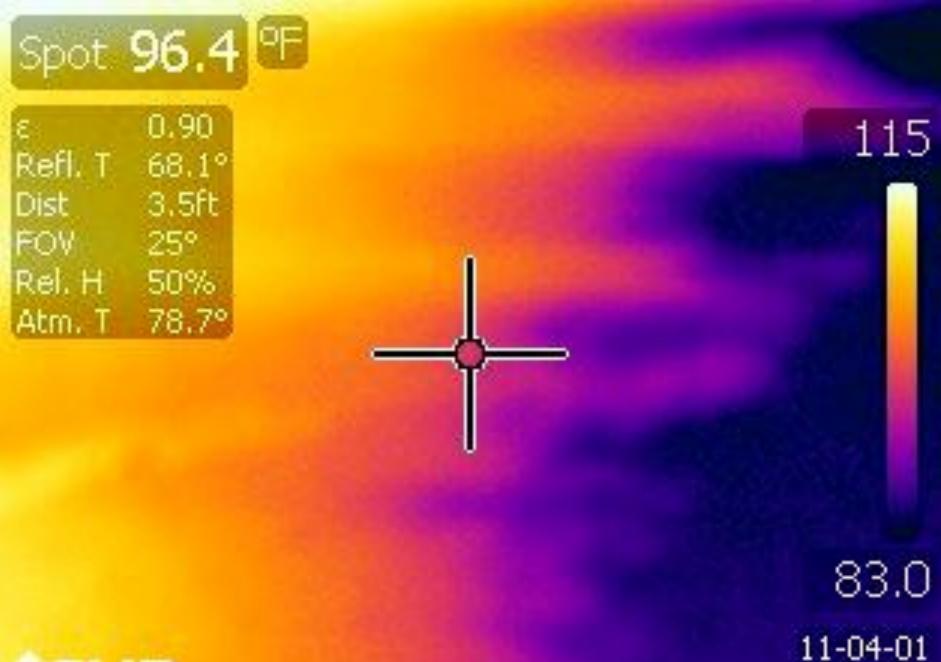




Note that the asphalt is 30 to 40 degrees hotter than the air temperature!

The asphalt will continue to be hot after the sun goes down.

Here in the shade, the asphalt is slightly cooler than the air temperature.



**\$FLIR** 

11-04-01 15:01





ε 0.90 Refl. T 68.1° Dist 3.5ft POV 25° Rel. H 50% Atm. T 78.7° Black Asphalt Roof 80 degrees hotter than Air Temperature!

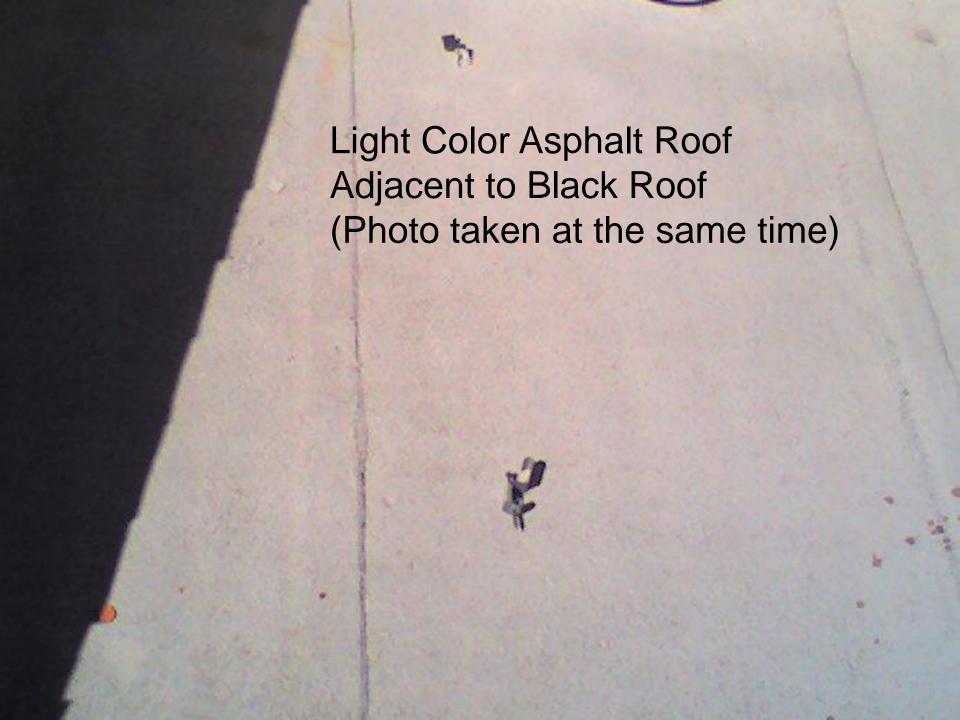


168

90.8

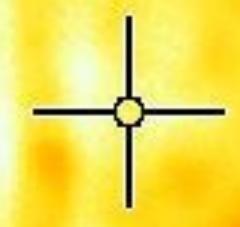
11-04-01 15:11







ε 0.90 Refl. T 68.1° Dist 3.5ft FOV 25° Rel. H 50% Atm. T 78.7° Light Color Asphalt Roof 30 degrees Cooler than Black Roof!





97.3

11-04-01 15:12







White Metal Roof 50 degrees cooler than Black Roof! Adjacent to Black Roof (Photo taken at the same time)



100.0

11-04-01



Atm. T



